MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
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DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

GAF Materials Corporation
1361 Alps Rd.
Wayne, NJ 07470

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF EverGuard TPO Single Ply Roofing Systems over Poured Gypsum Decks

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 10-0720.09 and consists of pages 1 through 9.
The submitted documentation was reviewed by Alex Tigera.

MIAMI-DADE COUNTY APPROVED

ROOFING SYSTEM APPROVAL

Category:	Roofing
Sub-Category:	Single Ply Roofing
Material:	TPO
Deck Type:	Poured Gypsum
Maximum Design Pressure	-502.5 psf

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

Product	Dimensions	Test Specification	Product Description
EverGuard® TPO	Various	ASTM D 6878 TAS 131	ThermoPlastic olefin reinforced membrane.
EverGuard® Extreme TPO	Various	ASTM D 6878 TAS 131	ThermoPlastic olefin reinforced membrane.
EverGuard® TPO FB Ultra	Various	ASTM D 6878 TAS 131	ThermoPlastic olefin reinforced, fleece backed membrane.
EverGuard® TPO Coated Metal	4' x 10' sheets	Proprietary	24 gauge steel with 25 mil thick TPO membrane film.
EverGuard® TPO Cover Tape	6" x 100′	Proprietary	30 mil TPO membrane laminated to white butyl tape.
EverGuard® TPO Detailing Membrane	24" x 50'	Proprietary	55 mil thick reinforced TPO membrane.
EverGuard® TPO Flashing Strip	Various	Proprietary	Reinforced flashing membrane.
EverGuard® TPO Pourable Sealer Pocket	9" x 6" x 4" oval with 3" base flange	Proprietary	Pourable sealer pocket is molded with TPO compound to a nominal 70 mil thickness.
EverGuard® TPO RTA (Roof Transition Anchor) Strip™	6" x 100′ roll	Proprietary	Reinforced TPO membrane with pressure sensitive adhesive.
EverGuard® TPO Split Pipe Boot	Various	Proprietary	45 mil thick reinforced TPO membrane split to accommodate most common pipes and conduits.
EverGuard® TPO Square Tube Wrap	Various	Proprietary	Square tube wraps are fabricated from 45 mil thick reinforced TPO membrane.
EverGuard® TPO Corner Curb Wrap	Various	Proprietary	Corners are fabricated from 45 mil thick reinforced TPO membrane.
EverGuard® TPO Scupper	Various	Proprietary	TPO coated metal 55 mil unreinforced membrane.
EverGuard® TPO T-Joint Cover Patch	100 patches per box	Proprietary	55 mil thick unreinforced membrane.

Product	Dimensions	Test Specification	Product Description
EverGuard® TPO Vent	2 vents per carton	Proprietary	Vent manufactured out of reinforced 45 mil TPO membrane and galvanized steel.
EverGuard® TPO T-Top Vent	4" or 6"	Proprietary	Vent manufactured out of reinforced 45 mil TPO membrane and galvanized steel.
EverGuard® TPO Walkway Rolls	Rolls 1/8"x30"x50'	Proprietary	Standard duty walkway rolls with herringbone traction.
EverGuard® TPO Inside Corner	6" x 6" x 5¼"	Proprietary	Inside corners of base and curb flashings.
EverGuard® TPO Universal Corner	Various	Proprietary	The universal style corner accommodates both inside and outside corners of base and curb flashings.
EverGuard® TPO Vent Boot	1" - 6" o.d. 6 pcs. Crtn.	Proprietary	Vent pipe boots.
EverGuard® TPO Expansion Joint Cover	Various	Proprietary	60 mil thick TPO reinforced membrane heat weldable joint cover.
EverGuard® TPO Standing Seam Tape	6"	Proprietary	TPO white cover tape.
EverGuard® TPO Cut Edge Sealant	1 quart squeeze tube	Proprietary	Solvent based sealant for TPO cut edges.
EverGuard® TPO Drain	Various	Proprietary	Spun aluminum drain preflashed with 55 mil. unreinforced TPO membrane.
EverGuard® TPO Fluted Corner	8" diameter nominal .05" non-reinforced	Proprietary	Flashing outside corners of base and curb flashing.
EverGuard® TPO Seam Cleaner	1 gallon	Proprietary	Solvent-based seam cleaner.
EverGuard® 1121 Bonding Adhesive	5 gallons	Proprietary	Adhesive for fully adhered systems and membrane flashing.
EverGuard® Low VOC TPO Bonding Adhesive	5 gallons	Proprietary	Adhesive for fully adhered systems and membrane flashing.
LRF Adhesive M	dual component cylinders	Proprietary	A two component, one-step, all-purpose foamable adhesive.
LRF Adhesive O	dual component cylinders	Proprietary	A two component, one-step, all-purpose foamable adhesive.
EverGuard® WB181 Bonding Adhesive	5 gallons	Proprietary	A water based adhesive for PVC and TPO membranes.

APPROVED INSULATIONS:

TABLE 2

Product Name	Product Description	Manufacturer (With Current NOA)
EnergyGuard PolyIso Insulation	Polyisocyanurate foam insulation	GAF Materials Corporation
EnergyGuard RA Polyiso Insulation	Polyisocyanurate foam insulation	GAF Materials Corporation
EnergyGuard RN Polyiso Insulation	Polyisocyanurate foam insulation	GAF Materials Corporation
EnergyGuard RH Polyiso Insulation	Polyisocyanurate foam insulation	GAF Materials Corporation
Structodek®	High-density fiberboard	Blue Ridge FiberBoard, Inc

APPROVED FASTENERS:

TABLE 3

Fastener Number	Product Name	Product Description	Dimensions	Manufacturer (With Current NOA)
1.	N/A	N/A	N/A	N/A

EVIDENCE SUBMITTED:

Test Agency/Identifier	Name	Report	Date
Underwriters Laboratory, Inc.	03CA38009	UL 790	01/21/04
IRT-ARCON, Inc.	02-011	TAS 114	02/26/02
	02-015	TAS 114	03/26/02
	04-005	TAS 114	03/19/04
	04-019	TAS 114	05/14/04
Exterior Research & Design, LLC	01881.11.03-2	TAS 114	11/26/03
	C8500SC.11.07	ASTM D6862	11/30/07
Factory Mutual Research Corp.	3041685	FMRC 4470	03/24/11
	3036141	FMRC 4470	08/10/09
	3041769	FMRC 4470	05/26/11
	3032856	FMRC 4470	11/24/08
	3038318	FMRC 4470	12/10/10
Atlantic & Caribbean Roof Consulting, LLC	08-032	TAS 114-D	05/19/08
	11-009	TAS 114-D	03/23/11
	11-010	TAS 114-D	03/23/11
	11-019	TAS 114-D	04/08/11
	11-020	TAS 114-D	04/08/11
	11-021	TAS 114-D	04/11/11
PRI Construction Materials Technologies LLC	GAF-289-02-01	ASTM D 6878/ TAS 131	09/07/11
	GAF-290-02-01	ASTM D 6878/ TAS 131	09/21/11

APPROVED ASSEMBLIES:

Membrane Type: Single Ply, TPO

Deck Type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type A(1): Insulation adhered to the deck, membrane adhered to insulation.

All General and System Limitations apply.

One or more layers of any of the following insulations.

Insulation Layer	Insulation Fasteners (Table 3)	Fastener Density/ft^2
Structodek®		
Minimum .5" thick	**N/A**	**N/A**

Note: Insulation shall be adhered to the substrate in ¾" to 1" wide beads 12" o.c. of OlyBond 500® or OlyBond 500® Green Adhesive. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: EverGuard® TPO or EverGuard® Extreme TPO is fully adhered to insulation using EverGuard® #1121 Bonding Adhesive applied at a total rate of 1.67 gal./sq. Apply half the adhesive to the underside of the membrane and half to the insulation. The membrane is broomed in after placement. The laps are heat welded a minimum 1-1/2" width for automatic machine welding. Weld width shall be a minimum 2" in width for hand welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.

Or

One ply of EverGuard® TPO or EverGuard® Extreme TPO adhered to Structodek with EverGuard® Low VOC TPO Bonding Adhesive applied at a total rate of 0.91 gal/sq. Apply half the adhesive to underside of the membrane and half to the insulation. The membrane is broomed in after placement. The laps are heat welded a minimum 1-1/2" width for automatic machine welding. Weld width shall be a minimum 2" width for had welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.

Maximum Design Pressure: **-215 psf (See General Limitation #9.)**

Membrane Type: Single Ply, TPO

Deck Type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type A(2): Insulation is adhered to deck; membrane is adhered to insulation.

All General and System Limitations apply.

Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation		
Minimum 1” thick	**N/A**	**N/A**

Note: Insulation shall be adhered to the substrate in OlyBond 500® or OlyBond 500® Green Adhesive applied in 1" wide beads 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: One ply of EverGuard® TPO or EverGuard® Extreme TPO adhered to insulation with EverGuard® #1121 Bonding Adhesive applied at a total rate of 1.67 gal./sq. Apply half the adhesive to the underside of the membrane and half to the insulation. The laps are heat welded a minimum 1-1/2” width for automatic machine welding. Weld width shall be a minimum 2” width for hand welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.

Or

One ply of EverGuard® TPO or EverGuard® Extreme TPO adhered to insulation with EverGuard® Low VOC TPO Bonding Adhesive applied at a total rate of 0.91 gal/sq. Apply half the adhesive to the underside of the membrane and half to the insulation. The laps are heat welded a minimum 1-1/2” width for automatic machine welding. Weld width shall be a minimum 2” width for hand welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.

Maximum Design Pressure: **-387.5 psf (See General Limitation #9.)**

Membrane Type: Single Ply, TPO

Deck Type 6I: Poured Gypsum, Insulated

Deck Description: Poured Gypsum Concrete

System Type A(3): Insulation is adhered to deck; membrane is adhered to insulation.

All General and System Limitations apply.

Insulation Layer	**Insulation Fasteners (Table 3)**	**Fastener Density/ft^2**
EnergyGuard™ Polyiso Insulation, EnergyGuard™ RA Polyiso Insulation, EnergyGuard™ RN Polyiso Insulation, EnergyGuard™ RH Polyiso Insulation		
Minimum 1” thick	**N/A**	**N/A**

Note: Insulation shall be adhered to the substrate in OlyBond 500® or OlyBond 500® Green Adhesive applied in 1" wide beads 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

Membrane: One ply of EverGuard® TPO or EverGuard® Extreme TPO is fully adhered to insulation. EverGuard® WB181 Bonding Adhesive applied at a total rate of 0.84 gal./sq. Apply the adhesive to the underside of the membrane and to the insulation. The adhesive needs to become tacky to the touch before the roof cover is applied to the insulation. The laps are heat welded a minimum 1-1/2” width for automatic machine welding. Weld width shall be a minimum 2” width for hand welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.

Maximum Design Pressure: **-210 psf (See General Limitation #9.)**

Membrane Type: Single Ply, TPO

Deck Type 6: Poured Gypsum, Non-insulated

Deck Description: Poured Gypsum Concrete

System Type F(1): Membrane is adhered to deck.

All General and System Limitations apply.

Membrane: One ply of EverGuard® TPO FB Ultra adhered with LRF Adhesive O applied in 1" wide beads spaced 6" o.c. The laps are heat welded a minimum 1-1/2" width for automatic machine welding. Weld width shall be a minimum 2" width for hand welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.

Maximum Design Pressure: **-295 psf (See General Limitation #9.)**

Membrane Type: Single Ply, TPO

Deck Type 6: Poured Gypsum, Non-insulated

Deck Description: Poured Gypsum Concrete

System Type F(2): Membrane is adhered to deck.

All General and System Limitations apply.

Membrane: One ply of EverGuard® TPO FB Ultra adhered with LRF Adhesive M applied in 1" wide beads spaced 6" o.c. The laps are heat welded a minimum 1-1/2" width for automatic machine welding. Weld width shall be a minimum 2" width for hand welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.

Maximum Design Pressure: **-502.5 psf (See General Limitation #9.)**

Membrane Type: Single Ply, TPO

Deck Type 6: Poured Gypsum, Non-insulated

Deck Description: Poured Gypsum Concrete

System Type F(3): Membrane is adhered to deck.

All General and System Limitations apply.

Membrane: One ply of EverGuard® TPO FB Ultra is fully adhered to the deck with EverGuard® WB181 Bonding Adhesive applied to the substrate at a total rate of 0.84 gal./sq. Apply the adhesive to the underside of the membrane and to the insulation. The adhesive needs to become tacky to the touch before the roof cover is applied to the insulation. The laps are heat welded a minimum 1-1/2" width for automatic machine welding. Weld width shall be a minimum 2" width for hand welding. The membrane is then rolled with a water filled roller weighing a minimum of 250 lbs.

Maximum Design Pressure: **-90 psf (See General Limitation #9.)**

GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each side lap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq.
   Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117 and/or RAS 137. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform to Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 9N-3 of the Florida Administrative Code.

END OF THIS ACCEPTANCE